

TABLE OF CONTENTS

<u>Chapter</u>	<u>Title</u>	<u>Page</u>
	SUMMARY	
	Purpose	S-1
	Scope	S-1
	CSO Control Projects for 75 Percent Volume Reduction	S-1
	Public Involvement Process	S-4
1	INTRODUCTION	
	The Combined Sewer Overflow Problem	1-1
	Past Studies of CSO Control	1-4
	Metro's Adopted Plan for Secondary Treatment and CSO Control	1-5
	DOE Review of Metro's CSO Plan and New DOE CSO Regulations	1-6
	Purpose and Scope	1-7
	Organization of Report	1-9
2	CSO CONTROL PROJECTS FOR 75 PERCENT CSO VOLUME REDUCTION	
	Previously Identified Projects	2-1
	Revisions to Metro Projects	2-2
	Effect of Revised Projects on CSO	2-4
	Project Priorities	2-7
	Effect of Metro CSO Control Projects on Metro CSO Volume, Frequency, and Effect on Previously Estimated Pollutant Loadings	2-13
	The City's CSO Control Projects	2-24
3	ADDITIONAL CSO CONTROL PROJECTS TO ACHIEVE ONE CSO EVENT A YEAR	
	CSO Remaining After 75 Percent CSO Volume Reduction Program	3-1
	Method Used to Approximate Achieving One Event per Year	3-1
	CSO Control Projects Which Could Be Added to Achieve One Event per Year	3-1
	Approximate Costs to Achieve One Event per Year Using Representative Projects	3-11

<u>Chapter</u>	<u>Title</u>	<u>Page</u>
4	RECOMMENDED CSO CONTROL PROGRAM	
	Projects and Phasing	4-1
	Costs	4-4
	Five Year Review of Program	4-4
	CSO Discharge and Sediment Characterization and Sampling Plan	4-4

Appendices

A	Secondary Planning Contingencies Which Could Affect CSO
B	Phased Costs for CSO Projects for 75 Percent Volume Reduction
C	Responses to Comments on Draft Plan
D	Rate Analysis
E	Indemnification Statement
F	Urban Storm Water and Combined Sewer Overflows--A Summary of Water Quality Issues

LIST OF TABLES

<u>Table No.</u>	<u>Title</u>	<u>Page</u>
2-1	Summary of Metro CSO Project Effects - Year 2005	2-5
2-2	Volume Remaining at Each Overflow	2-9
2-3	Approximate Frequency of Overflows at 75 Percent Overall CSO Volume Reduction	2-10
2-4	Project Ranking Criteria	2-11
2-5	CSO Pollutant Loadings at 75 Percent CSO Reduction 1986 Plan vs. Revised Plan	2-17
3-1	Partial Separation Projects Added to 75 Percent CSO Volume Reduction Program to Achieve One Event per Year	3-15
3-2	Service Area Characteristics	3-18
4-1	CSO Volumes Remaining at the End of Each Phase	4-3
4-2	Availability of Chemical Data	4-5
4-3	Geometric Mean Concentrations	4-6
4-4	Sediment Chemistry Data	4-11

LIST OF FIGURES

<u>Figure No.</u>	<u>Title</u>	<u>Page</u>
1-1	Reduction in Untreated Sanitary and Combined Sewer Overflows in the Seattle Area Since 1960	1-2
1-2	CSO Locations and Volume	1-3
2-1	Location of CSO Projects for 75 Percent Volume Reduction	2-8
2-2	Current Annual BOD Discharges vs. Year 2005 Comparative CSO-Related BOD Annual Loadings	2-14
2-3	Current Annual Suspended Solids Discharges vs. Year 2005 Comparative CSO-Related Suspended Solids Annual Loadings	2-15
2-4	Current Annual Lead Discharges vs. Year 2005 Comparative CSO-Related Lead Annual Loadings	2-16
2-5	Effect of 75% CSO Volume Reduction on Stormwater/CSO Discharges in West Point Service Area	2-20
2-6	Effect of 75% CSO Volume Reduction on Stormwater/CSO Discharges in West Point Service Area - Suspended Solids and BOD	2-21
2-7	Effect of 75% CSO Volume Reduction on Stormwater/CSO Discharges in West Point Service Area - Lead and Zinc	2-22
2-8	Potential Effect of Lead Concentrations Measured in 1986 on Projected Loadings	2-23
3-1	NSA Additional Potential Separation Projects	3-6
3-2	SSA Additional Potential Separation Projects	3-7
3-3	Added Partial SSA Separation Projects for One Event per Year	3-13
3-4	Added Partial NSA Separation Projects for One Event per Year	3-14
3-5	Capital Cost vs. CSO Volume Reduction	3-17
3-6	Characteristics of Service Area for Various Levels of CSO Control	3-19